

PROJECT REPORT

CSE 215 (Programing language-2)

Project Name: Car Rental Management System

Project Member: Rijuana Mahmud (2311483642)

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Introduction

This project is designed so as to be used by Car Rental Company specializing in renting cars to customers. It is a system through which customers can view available cars, register, view profile and book car. The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between companies (services provider) and their customers of which car rental industry is not left out. The Car Rental System is being developed for customers so that they can book their vehicles from any location. This application takes information from the customers through filling their details. A customer being registered in the website has the facility to book a vehicle which he requires. It automates manual procedure in an effective and efficient way. This automated system facilitates customer and provides to fill up the details according to their requirements. It includes type of vehicle they are trying to hire and location. The purpose of this system is to develop a web site for the people who can book their vehicles along with requirements from any part of the world.

Project Objective

- This online car rental solution is fully functional and flexible.
- It is very easy to use.
- This online car rental system helps in back office administration by streamlining and standardizing the procedures.
- It saves a lot of time, money and labour.
- Eco-friendly: The monitoring of the vehicle activity and the overall business becomes easy and includes the least of paper work.
- The portal acts as an office that is open 24/7.
- It increases the efficiency of the management at offering quality services to the customers.
- It provides custom features development and support with the software

Car rental business has emerged with a new goodies compared to the past experience where every activity concerning car rental business is limited to a physical location only. Even though the physical location has not been totally eradicated; the nature of functions and how these functions are achieved has been reshaped by the power of internet. Nowadays, customers can reserve cars online, rent car online, and have the car brought to their door step once the customer is a registered member or go to the office to pick the car. The web based car rental system has offered an advantage to both customers as well as Car Rental Company to efficiently and effectively manage the business and satisfies customers' need at the click of a button

Hardware:

The hardware needed does not have to be state of the art in technology. The Project is in Eclipse IDE and does not require special graphic cards that are required to run high Applications. Here is a list of basic Hardware needed to run the program:

- Intel Pentium Processor or any other compatible Processor, 750 MHz or greater.
- Minimum 128 MB of RAM capacity or more.
- Minimum of 16 MB Graphic Card RAM capacities or more.
- Recommended hard disk space of 1 GB or more.

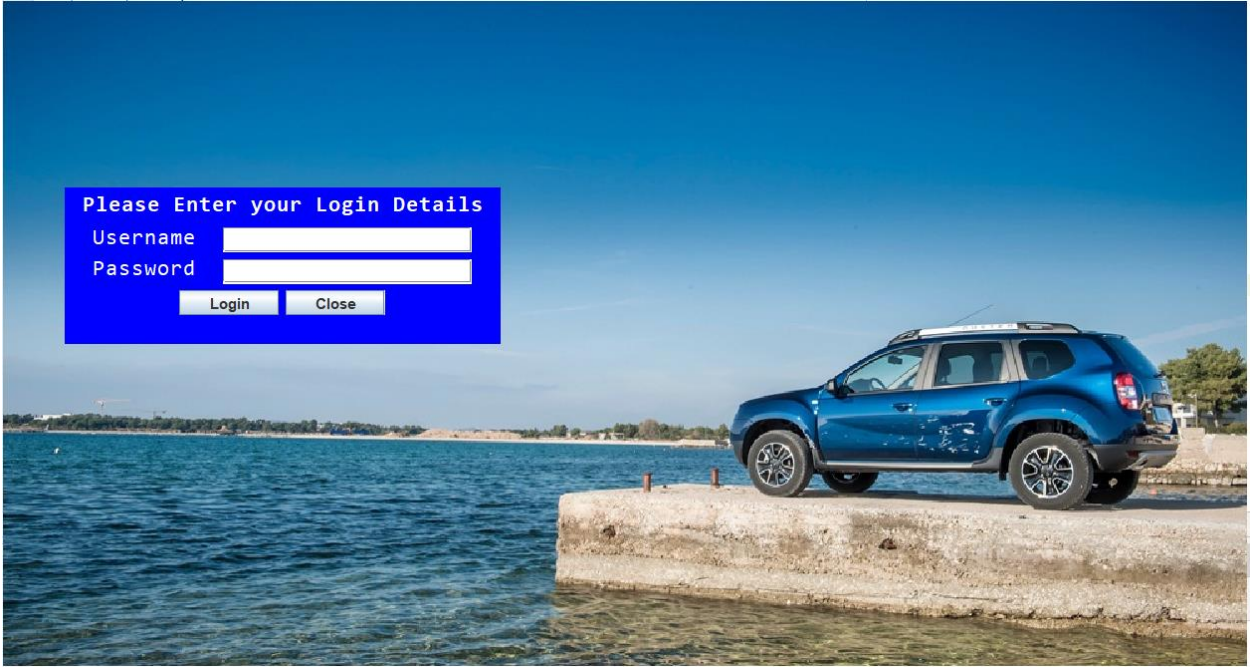
Software:

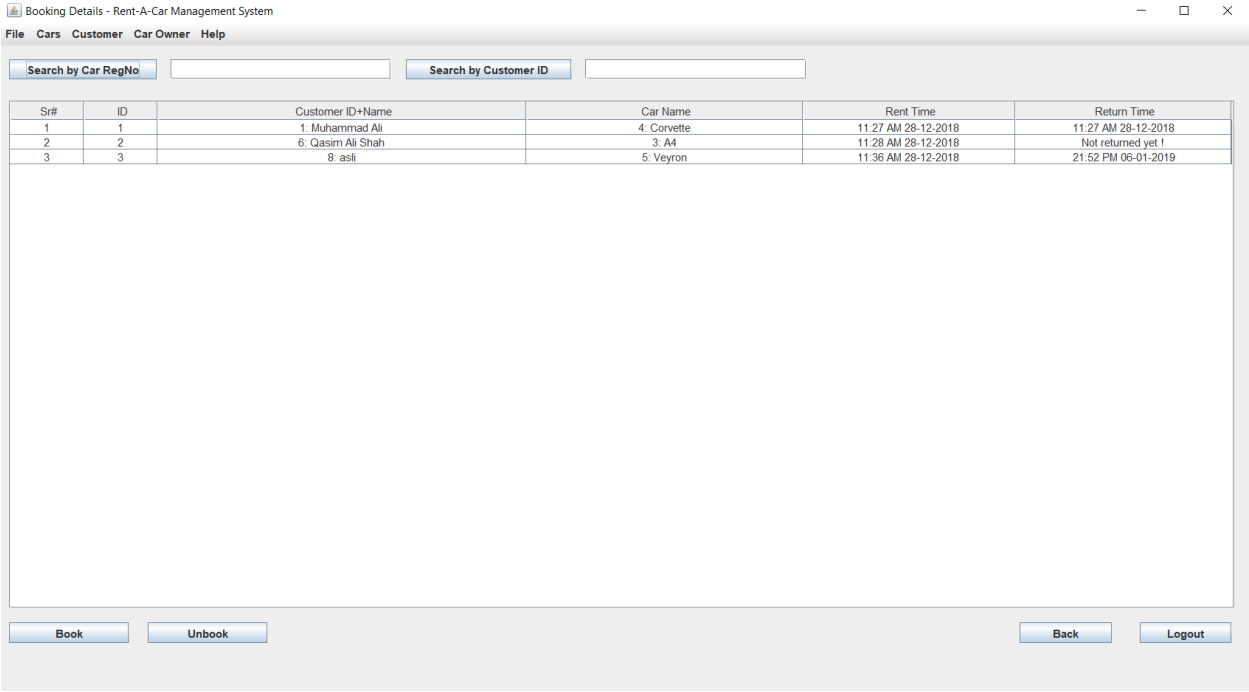
Java programming language is being used to develop the project. Program coding will be done with the help of Eclipse/ Netbeans IDE to develop the program coding. Here is a list of basic Software needed to run the program:

- Windows 98, 2000,8,10 or XP or Linux operating system.
- Java 2SDK, Standard Edition version 1.4.1 or above.
- Eclipse/ Netbeans IDE editing program.

Result & Snapshot

Therefore, after implementing all the mentioned libraries as well as software tools, we finally full-fledge software where users can make an account, log in as and also post there own car whenever they want.







Add Car



Maker

Name

Reg no (ABC-0123)

Owner ID

Rent Per Hour (in PKR)

Model



Car type

Familycar



Seating capacity

4



Color

White



Condition

Excellent



Add

Cancel




Update Car



Enter Car ID to be updated

Update

Cancel

 Remove Car

Enter Car ID to be removed

Remove

Cancel

Customer Details - Rent-A-Car Management System

File Cars Customer Car Owner Help

Search Name

Search ID

Sr#	ID	CNIC	Name	Contact Number	Car Rented	Bill
1	1	2323232323232	Muhammad Ali	03442232323	No Cars Booked !	4000
2	6	3040304030403	Qasim Ali Shah	03432234234	3: 3	0
3	8	3040304030444	asli	03456789087	No Cars Booked !	1017000

Clear Bill

Add


Update

Remove

Back

Logout

Message



1 : Car_new{ID=3, Maker=Audi, Name=A4, Colour=Black, Type=Familycar, SeatingCapacity=4, Model=2017, Condition=Good, RegNo=RIL-456, RentPerHour=2000, carOwner=Person_new{ID=1, CNIC=3040304938483, Name=Talha Zubair, Contact_No=03425675675} CarOwner{Balance=0} }

OK

Car Owner Details - Rent-A-Car Management System

File

Cars

Customer

Car Owner

Help

Search Name

Search ID

Sr#	ID	CNIC	Name	Contact Number	Car Given for rent	Balance
1	1	3040304938483	Talha Zubair	03425675675	1: Aqua 3: A4	0
2	3	3443434343434	Ahmad Ali	03424234234	4: Corvette	4000
3	4	3440304030403	Abdullah	03423423342	5: Veyron	1017000

Clear Balance

Add

Update

Remove

Back

Logout

Car Details - Rent-A-Car Management System

File

Cars

Customer

Car Owner

Help

Search Reg_No

Search Name

Sr#	ID	Maker	Name	Colour	Type	Seats	Model	Condition	Reg No.
1	1	Toyota	Aqua	White	Familycar	4	2018	Excellent	GE-342
2	3	Audi	A4	Black	Familycar	4	2017	Good	RIL-456
3	4	Chevrolet	Corvette	Blue	Sports cars	2	2015	Excellent	HS-900
4	5	Bugatti	Veyron	Black	Supercar	2	2018	Excellent	LH-745

Add

Update

Remove

Back

Logout



1 : Car_new{ID=1, Maker=Toyota, Name=Aqua, Colour=White,
Type=Familycar, SeatingCapacity=4, Model=2018, Condition=Excellent, RegNo=GE-342, RentPerHour=1200,
carOwner=Person_new{ID=1, CNIC=3040304938483, Name=Talha Zubair, Contact_No=03425675675} CarOwner{Balance=0}
}

2 : Car_new{ID=3, Maker=Audi, Name=A4, Colour=Black,
Type=Familycar, SeatingCapacity=4, Model=2017, Condition=Good, RegNo=RIL-456, RentPerHour=2000,
carOwner=Person_new{ID=1, CNIC=3040304938483, Name=Talha Zubair, Contact_No=03425675675} CarOwner{Balance=0}
}

3 : Car_new{ID=4, Maker=Chevrolet, Name=Corvette, Colour=Blue,
Type=Sports cars, SeatingCapacity=2, Model=2015, Condition=Excellent, RegNo=HS-900, RentPerHour=4000,
carOwner=Person_new{ID=3, CNIC=3443434343434, Name=Ahmad Ali, Contact_No=03424234234} CarOwner{Balance=0}
}

4 : Car_new{ID=5, Maker=Bugatti, Name=Veyron, Colour=Black,
Type=Supercar, SeatingCapacity=2, Model=2018, Condition=Excellent, RegNo=LH-745, RentPerHour=4500,
carOwner=Person_new{ID=4, CNIC=3440304030403, Name=Abdullah, Contact_No=03423423342} CarOwner{Balance=0}
}

OK



Add Customer




Enter CNIC (without dashes)

Enter Name


Enter Contact

Add


Cancel

 Update Customer

Enter ID to be Updated

 Remove Customer


Enter ID (without dashes)

 Add CarOwner

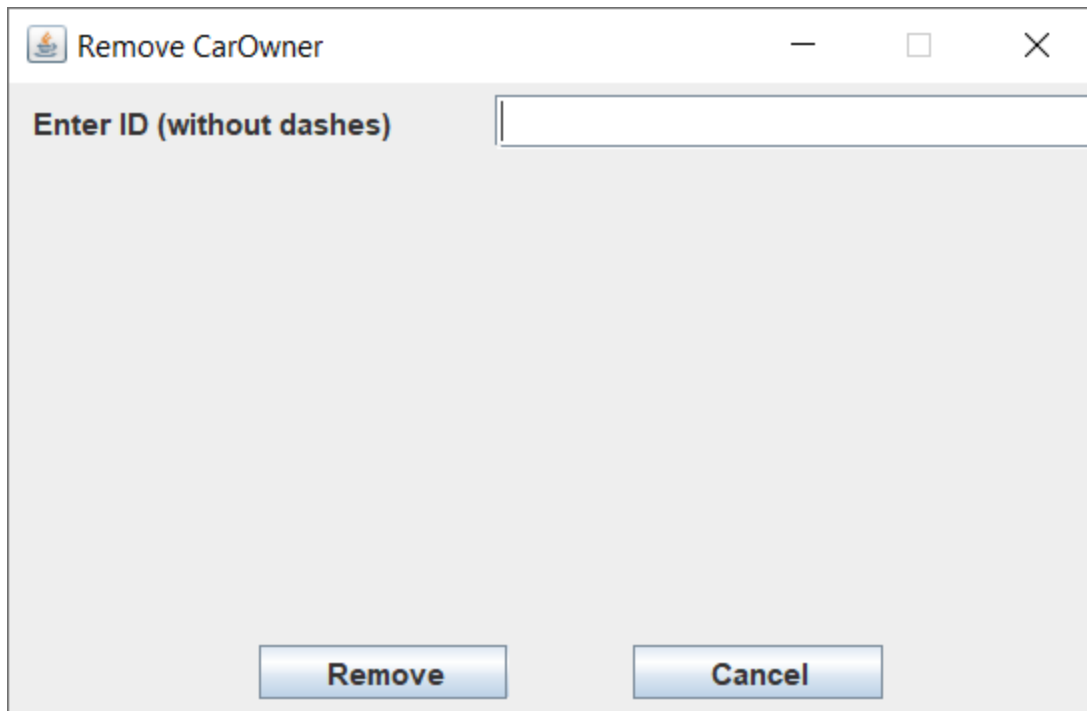
Enter CNIC (without dashes)

Enter Name

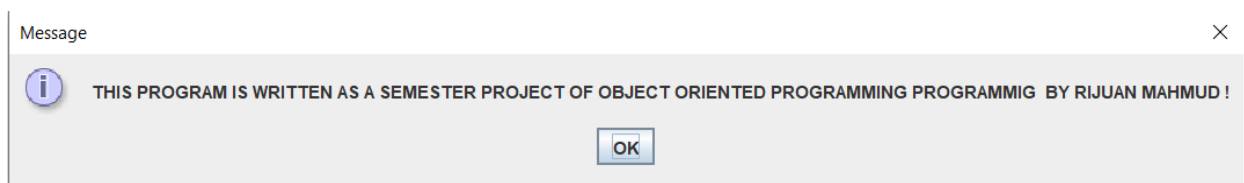
Enter Contact

 Update CarOwner

Enter ID to be Updated



A Java Swing dialog box titled "Remove CarOwner". It features a standard window header with a minimize button, a disabled maximize button, and a close button. The main area contains a label "Enter ID (without dashes)" followed by a text input field. At the bottom, there are two buttons: "Remove" and "Cancel".



Conclusion

By developing a project using Java, the project can be run on many platforms. We may need to add or change some of functionalities of the project based around our requirements.